

Date: Tue, 1 Feb 94 04:30:18 PST
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V94 #21
To: Ham-Digital

Ham-Digital Digest Tue, 1 Feb 94 Volume 94 : Issue 21

Today's Topics:

 Digital Conference
 digital modulation
 Ka9q for windows
 Source For Info re Ham Radi
 TCP bridge software on 386 box with "Rangelan ISA" cards.
 Thanks for help

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 31 Jan 94 19:20:45 GMT
From: news-mail-gateway@ucsd.edu
Subject: Digital Conference
To: ham-digital@ucsd.edu

	Subject:	Time:1:16 PM
OFFICE MEMO	Digital Conference	Date:1/31/94

1994 ARRL NATIONAL CONFERENCE ON DIGITAL COMMUNICATIONS

MINNEAPOLIS, JANUARY 12 -- The TwinsLAN ARC today
announced that it will sponsor the 1994 ARRL National Digital
Communications Conference on August 19 through 21 at the
Thunderbird Hotel and Conference Center in Bloomington,
Minnesota, U.S.A.

The objective of the conference is to create a forum for

radio amateurs and experts in digital communications to meet, publish their work and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. Areas of interest include generation, coding, modulation and demodulation, transmission, networking, processing, presentation and application of voice, text, image and data information.

The conference site is located near the Minneapolis/St. Paul International Airport, just off Interstate I-494. Free 24-hr shuttle service is available to and from the airport.

AGENDA:

The agenda for the three-day event includes informal activities for attendees and family members on Friday, August 19 through noon Sunday, August 21. Formal conference activities, including presentation of papers and six forums are scheduled for Saturday, August 20, from 8:30 am to 5 pm. A detailed agenda will be available when schedules are finalized.

CALL FOR PAPERS:

Anyone interested in digital communications is invited to submit a paper for publication in the conference Proceedings. Presentation at the conference is not required for publication. Papers are due by June 20 and should be submitted to Maty Weinberg, ARRL, 225 Main St., Newington, CT 06111, U.S.A., or via Internet at lweinber@arrl.org.

A challenge is to get the "doers and thinkers" to set aside their soldering irons or turn away from their code long enough to document their work. In this regard, if there is a topic you think should be included in the Conference, or someone that should be encouraged to publish and/or present their accomplishment, please contact Rick Whiting, W0TN, by Internet e-mail (preferred) to rick_whiting@atk.com, or by MCI Mail, CompuServe 71445,377, or U.S. Mail to 5780 Rosewood Lane N., Plymouth, MN 55442, U.S.A.

ACCOMMODATIONS:

On-site accommodations are available at a special rate of \$67 (plus tax) for single occupancy or \$73 (plus tax) for double occupancy. Make reservations directly with the Thunderbird Hotel at 800-328-1931 before July 29 for these special rates. Be sure to mention you are attending the National Digital Communications Conference. Off-site

accommodations are available in the area starting at \$39.95. Contact the NDCC Info Line for a list of facilities. Early reservations are encouraged. A list of area campgrounds for RVs is also available. Northwest Airlines is offering an additional 5% discount on airfare to and from the Twin Cities for conference attendees. Call the NDCC Info Line for details.

A FAMILY WEEKEND:

Family participation in the NDCC is encouraged. The hotel has a large pool for guests. Informal outings are planned to the Minnesota Zoo (admission extra) and the Mall of America, the largest indoor shopping mall in the US. Free scheduled shuttle service is also available from the conference center to the Mall. Minnesota is a great place to visit in August. Consider making this weekend an addition to your family vacation plans. Twin Cities and Minnesota tourist information packets are available on request to the NDCC Info Line.

REGISTRATION:

The conference registration fee is \$45 per person, which includes a luncheon buffet, a set of conference papers (including those submitted but not presented) and transportation to the Mall of America on Saturday evening. Registration, by check payable to "TwinsLAN Conference", must be received by August 12. Mail your registration form and check to:

1994 National Digital Communications Conference
c/o Paul Ramey WG0G
16266 Finland Ave.
Rosemount, MN 55068
U.S.A.

ADDITIONAL INFORMATION:

Contact Paul Ramey at the NDCC Info Line, 612 432-1149 (evenings and weekends) or Carl Estey, WA0CQG, via Internet e-mail at estey@skyler.mavd.honeywell.com.

NOTE:

Please post this announcement on your local land-line BBS and print in your club newsletter.

Date: 29 Jan 1994 13:07:35 -0800

From: nntp.crl.com!crl.crl.com!not-for-mail@decwrl.dec.com
Subject: digital modulation
To: ham-digital@ucsd.edu

I wan't to make a simple digital link, One of the ways I was tinkering of doing it was using an MC2833 for the xmitter and a MC3363 for the receiver, my question is how do I modulate the transmitter, can I just run the logic voltage (0 or 5V) into the "mod in" of the xmitter chip? Or to I need to use AFSK? Would just running the logic voltage into the mod effectively give me a low and high ouput from the mc3363's data slicer? I'd like not to use modem chips. And since I'm going to use uProcessors on each end I was hoping to use them for the timing etc. I want to know if this will work before I invest alot of time making a prototype that doesn't work.

Also what about using AM? what kind of simple modulation methods are simple for AM? Since AM receivers/transmitters are much cheaper to build.

Anyway I only need 300baud, but 1200 would be nice. I'm going to build this to operate on the 49MHz band, and I don't need more than about 1mw of power output since I only need about 50feet of range.

Any ideas would be appreciated.

Thanx in advance,

mycal

Date: Fri, 28 Jan 1994 18:03:31 GMT
From: usc!howland.reston.ans.net!pipex!uknet!nessie!john@network.ucsd.edu
Subject: Ka9q for windows
To: ham-digital@ucsd.edu

Several versions of the KA9Q package WILL run in a DOS window on Windows 3.1, because I use one version regularly.

John, G1YYH

Click Here

Date: 31 Jan 94 21:53:34 GMT
From: news-mail-gateway@ucsd.edu
Subject: Source For Info re Ham Radi

To: ham-digital@ucsd.edu

Subject: Time:1:25 PM
OFFICE MEMO Source For Info re Ham Radio Date:1/31/94
The following is in answer to Steve Ling's request for info on ham radio...

A good place to start is the American Radio Relay League (ARRL) Information Service. This is a mail server that let's you access many information files containing information about various facets of Amateur Radio. You can retrieve these files selectively by sending an e-mail message to ARRL HQ (address to info@arrl.org). Each file you request is e-mailed back to you automatically, usually within a few hours. To start I recommend you send the following as the text of the message:

send help
send index
send prospect
quit

This will get you all the information you need to use the infor server to get the answer to your question.

73/Rick W0TN (rick_whiting@atk.com)

Date: 1 Feb 1994 02:52:02 GMT
From: munnari.oz.au!newshost.anu.edu.au!arp!jdb@network.ucsd.edu
Subject: TCP bridge software on 386 box with "Rangelan ISA" cards.
To: ham-digital@ucsd.edu

Hi - a newbie question.

I want advise on the best setup using "cheap" hardware for TCP/IP over radiowaves, preferably for 5 to 10 miles line-of-site.

I currently have some 80386 computers with the "Rangelan ISA" cards and ethernet cards in them. I plan to use these as bridges/routers/repeaters (whatever works best) between geographically seperate ethernets. Specifically one at my house and one at my work.

I would like advise on what software to use (JNOS, KA9Q, etc), what version of this software, advise on whether I should upgrade to 486 processors (I am currently using the 242 Kbps Rangelan cards, but might use the 2Mbps

cards), advise on aeriels (although I think I have about the best price vs. performance with a Yagi), advise on how well other people succeeded with this sort of setup, advise on distance vs. reliability, the affect of weather on comms, the maximum throughput anybody has got, and any general advise that you think of.

you can email to me and I will summarise.

Details on the RangeLan cards I have:

===== don't read any further unless you are bored =====

General:

=====

bus interface: ISA bus (PC/XT or PC/AT)
maximum range: 500 feet (assumes no directional aerial !)
data rate: 242 Kbps

Network:

=====

Driver support: NetWare 2.X, LANTastic, NetBIOS, NetWare Lite,
NetWare 3.11, NDIS
Media Access Protocol: RangeLAN CSMA/CA
Error detection/correction: spread spectrum coding/decoding,
hardware CRC-16 and firmware
Logical Link Control (LLC)
Security: hardware scrambling, software controlled security code

Radio:

=====

Radio type: spread spectrum
Frequency band: 902 to 928 Meghertz
Independant Channels: 3

Physical:

=====

Width: 3.9 inches
Length: 9.2 inches

Regulatory Approval:

=====

FCC: Class B

Compatability Notes:

=====

NetWare: 2.X, 3.11, Lite
NetBIOS: full support
LANTastic: requires copy of LANTastic AI at each node
[JDB: note, I am not sure about the letters "AI",

I am working off a photocopy of a fax :-(]
LAN Manager: NDIS driver

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John Barlow, Parallel Computing Research Facility, I-Block,
Australian National University, Canberra, 0200, Australia.
email = John.Barlow@anu.edu.au
[International = +61 6, Australia = 06] [Phone = 2492930, Fax = 2490747]

Date: Fri, 28 Jan 1994 15:06:35 GMT
From: usc!howland.reston.ans.net!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!
cauldron!ra.csc.ti.com!sti955.dseg.ti.com!sling@network.ucsd.edu
Subject: Thanks for help
To: ham-digital@ucsd.edu

Thanks for the email on getting started in amateur digital radio. There must
be a lot of people out there that really enjoy this! Sometimes things look
different from a beginner's perspective, especially for someone experienced
in the digital part and totally new to the radio part, so I will try to post
occasionally with my progress. Again, thanks.

[] [] []

Steve Ling
sling@dseg.ti.com
214-995-1378

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Dallas, Texas 75265

End of Ham-Digital Digest V94 #21

